**Amendments to the Specification:**

Please replace the text at page 24, line 10 with the following amended text:

regulatory system from Valentis ~~(www.geneswitch.com)~~, sold by Invitrogen (catalog

Please replace the text at page 24, line 29 with the following amended text:

PPLLRQAIELFDHQGAEPAFLFGLELIICGLEKQLKCESGS (SEQ ID NO: 18); (a-1) **tTA**. (TetR-VP16)

Please replace the text at page 24, line 37 with the following amended text:

YGG (SEQ ID NO: 19); (a-2) **tTA2** (TetR-FFF) (Baron et al., 1997):

Please replace the text at page 25, line 9 with the following amended text:

ALDDFDLDMLPADALDDFDLDMLPG (SEQ. ID. No.: 20); (a-3) **tTA-p65** (TetR-p65) (Urlinger et al.,

Please replace the text at page 25, line 19 with the following amended text:

GLPNGLLSGDEDFSSIADMDFSALLSQISS (SEQ. ID. No.: 21); (b) **Lac repressor**: GenBank

Please replace the text at page 25, line 27 with the following amended text:

TASPRALADSLMQLARQVSRLESGQ (SEQ. ID. NO.: 22); (c) **Xylose repressor**: GenBank accession

Please replace the text at page 25, line 35 with the following amended text:

LDMITM (SEQ. ID. NO.: 23);

Please replace the text at page 26, line 11 with the following amended text:

GCEEKVNDVAVKLS (SEQ. ID. NO.: 24); (e) TetR-based T-Rex system: the TetR sequence is

Please replace the text at page 26, line 17 with the following amended text:

VLAQIAAILCLMFPEHDDFQLLQAHA (SEQ. ID. NO.: 25); (g) ***Streptomyces coelicolor***

Please replace the text at page 26, line 23 with the following amended text:

EDAQDIMAARGGDTVAEMLDRDFEFALDLLVAGIDAMVEQA (SEQ. ID. NO.: 26); (h) ***Streptomyces***

Please replace the text at page 26, line 29 with the following amended text:

DYQDLEHRYALLQKHILPAIAVPSVLAALDLSEERGARLAAELAPTGKD (SEQ. ID. NO.: 27);(i) **TraR-**

Please replace the text at page 27, line 5 through page 28, line 31, with the following amended text:

QHRHITAVTNYHRQWQSTYFDKKFEALDPVVKRARSRKHIFTWSGEHERPTLSKD
ERAFYDHASDFGIRSGITIPIKTANGFMSMFTMASDKPVIDLDREIDAVAAAATIGQI
HARISFLRTTPTAEDAACVDPKEATYLRWIAVGKTMEEIADVEGVKYNSVRVKLRE
RMKRFDVRSKAHLTALAIRRKLI (SEQ. ID. NO. 28);. (j-i) The skilled person knows that almost any fusion of the Phy sequences to a Gal4-DBD (aa's 1-63, 1-95, 1-141) would be active. (j-ii) **Gal4-hpr-p65** from pSwitch (Invitrogen: Geneswitch_man.pdf):
MDSQQPDLKLLSSIEQACDICRLKKLKCSKEKPKCAKCLKNNWECRYSPKTKRSPL
TRAHLTEVESRLERLEQLFLLIFPREDLDMILKMDSLQDIKALLEFPGVDQKKFNKV
RVVRALDAVALPQPVGVPNESQALSQRFTFSPGQDIQLIPPLINLLMSIEPDVIYAG
HDNTKPDTSSSLLTSLNQLGERQLLSVVKWSKSLPGFRNLHIDDQITLIQYSWMSL
MVFGLGWRSYKHVSGQMLYFAPDLILNEQRMKESSFYSLCLTMWQ1PQEFVKLQV
SQEEFLCMKVLLLLNTIPLEGLRSQTQFEEMRSSYIRELIKAIGLRQKGVVSSSQRF
YQLTKLLDNLHDLVKQLHLYCLNTFIQSRALSVEFPEMMSEVIAGSTPMEFQYLPDT
DDRHRIEEKRKRTYETFKSIMKKSPFSGPTDPRPPPRRIAVPSRSSASVPKPAPQP
YPFTSSLSTINYDEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAPAMVSALA
QAPAPVPVLAPGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDEDLGALLGNSTD
PAVFTDLASVDNSEFQQLLNQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAP
APLGAPGLPNGLLSGDEDFSSIADMDFSALLSQISS (SEQ. ID. NO.: 29); (j-iii-1) ZHFD1-FKBP fusion ~~(www.ariad.com/regulationkits)~~
MDYPAAKRVKLDSRERPYACPVESCDRRFSRSDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRTHTGGGRRRKKRTSIETNIRVALEKSFLENQKPTSEEITMIADQL
NMEKEVIRVWFCNRRQKEKRINTRGVQVETISPGDGRTFPKRGQTCWHYTGMLE
DGKKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGAT
GHPGIIPPHATLVFDVELLKLEVEGVQVETISPGDGRTFPKRGQTCWHYTGMLED
GKKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGATG
HPGIIPPHATLVFDVELLKLETRGVQVETISPGDGRTFPKRGQTCWHYTGMLEDG
KKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVGQRAKLTISPDYAYGATGH
PGIIPPHATLVFDVELLKLETSY (SEQ. ID. NO.: 30); (j-iii-2) FRB-p65 fusion ~~(www.ariad.com/regulationkits)~~:
MDYPAAKRVKLDSRILWHEMWHEGLEEASRLYFGERNVKGMFEVLEPLHAMMER
GPQTLKETSFNQAYGRDLMEAQEWCRKYMKSGNVKDLLQAWDLYYHVFRRISKT
RDEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAPAPVPVLA
PGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDEDLGALLGNSTDPAVFTDLASV
DNSEFQQLLNQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPN
GLLSGDEDFSSIADMDFSALLSQISSTSY (SEQ. ID. NO.: 31); (j-iv-1) VgEcR from pVgRXR ~~(http://www.invitrogen.com/content/sfs/vectors/pvgrxr.pdf)~~:

MAPPTDVSLGDELHLDGEDVAMAHADALDDFDLDMLGDGDSPGPGFTPHDSAPY
GALDMADFEFEQMFTDALGIDEYGGKLLGTSRRISNSISSGRDDLSPSSSLNGYSA
NESCDAKKSKKGPAPRVQEELCLVCGDRASGYHYNALTCGSCKVFFRRSVTKSA
VYCCKFGRACEMDMYMRRKCQECRLKKCLAVGMRPECWPENQCAMKRREEKA
QKEKDKMTTSPSSQHGGNGSLASGGGQDFVKKEILDLMTCEPPQHATIPLLPDEIL
AKCQARNIPSLTYNQLAVIYKLIWYQDGYEQPSEEDLRRIMSQPDENESQTDVSFR
HITEITILTVQLIVEFAKGLPAFTKIPQEDQITLLKACSSEVMMLRMARRYDHSSDSIF
FANNRSYTRDSYKMAGMADNIEDLLHFCRQMFSMKVDNVEYALLTAIVIFSDRPGL
EKAQLVEAIQSYYIDTLRIYILNRHCGDSMSLVFYAKLLSILTELRTLGNQNAEMCFS
LKLKNRKLPKFLEEIWDVHAIPPSVQSHLQITQEENERLERAERMRASVGGAITAGI
DCDSASTSAAAAAAQHQPQPQPQPQPSSLTQNDSQHQTQPQLQPQLPPQLQGQ
LQPQLQPQLQTQLQPQiQPQPQLLPVSAPVPASVTAPGSLSAVSTSSEYMGGSAA
IGPITPATTSSITAAVTASSTTSAVPMGNGVGVGVGVGGNVSMYANAQTAMALMG
VALHSHQEQLIGGVAVKSEHSTTA (SEQ. ID. NO.: 32); (j-iv-2) RXR from pVgRXR
~~(http://www.invitrogen.com/content/sfs/vectors/pvgrxr.pdf)~~:
MDTKHFLPLDFSTQVNSSLTSPTGRGSMAAPSLHPSLGPGIGSPGQLHSPISTLSS
PINGMGPPFSVISSPMGPHSMSVPTTPTLGFSTGSPQLSSPMNPVSSSEDIKPPLG
LNGVLKVPAHPSGNMASFTKHICAICGDRSSGKHYGVYSCEGCKGFFKRTVRKDL
TYTCRDNKDCLIDKRQRNRCQYCRYQMCLAMGMKREAVQEERQRGKDRNENEV
ESTSSANEDVPVERILEAELAVEPKTETYVEANVGLNPSSPNDPVTNICQAADKQL
FTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHRSIAVKDGILLATGLHVHR
NSAHSAGVGAIFDRVLTELVSKMRDMQMDKTELGCLRAIVLFNPDSKGLSNPAEV
EALREKVYASLEAYCKHKYPEQPGRFAKLLLRLPALRSIGLKCLEHLFFFKLIGDTPI
DTFLMEMLEAPHQMT (SEQ. ID. NO.: 33).